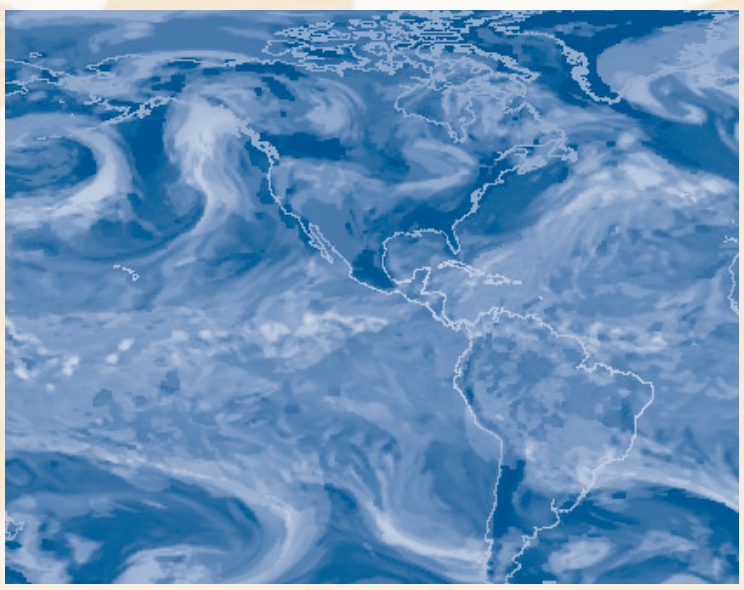
NASA Summer School for High Performance Computational Earth and Space Sciences

Summer 2003



http://esdcd.gsfc.nasa.gov/ESS/summer_school.html

July 7-25, 2003

The NASA Goddard Space Flight Center's (GSFC) Earth and Space Data Computing Division (ESDCD) is soliciting applications from qualified graduate students to participate in an intensive lecture series in computational earth and space sciences during the three-week period July 7-25, 2003. The ESDCD provides comprehensive research and development support in computing and data handling for NASA Earth and space science research programs. Resident facilities include a 1392-processor Compaq SC45, a 512-processor Beowulf cluster, and numerous middle-sized supercomputing platforms. Beowulf is a class of inexpensive scalable systems designed as a cluster of commodity PC's using LINUX, first conceived at GSFC in the 90's. This summer program stems from NASA's ongoing commitment to provide educational opportunities for the next generation of Earth and space scientists in the development of computational techniques and algorithms for scalable parallel computers in support of the Federal High-End Computing Program.

What Type of Work Would I do?

Approximately 15 students will be selected, based on background and interests, to participate in the three-week program. Students will be given hands-on parallel computer training and small group interaction experience. Staff and invited computational scientists will present a series of lectures on advanced topics in computational Earth and space sciences, with emphasis on core techniques and algorithms. Lectures will be presented on developing software for scalable architectures. Students are encouraged to give a presentation of their thesis research interests during the course of the summer school.

How Do I Qualify?

The program aims to attract Ph.D. students in disciplines that impact Earth and space science and whose present or future research requires large-scale numerical modeling on massively parallel architectures. Eligibility is limited to those students who are U.S. citizens and are enrolled in U.S. universities.

Application materials should include:

1) a cover letter explaining your interest in the program and how your research will benefit from your participation; 2) your area of research and thesis direction; 3) a statement of your career objectives and goals; 4) a description of your relevant work experience; 5) your curriculum vitae or resume with publication list; 6) your current G.P.A.; 7) two letters of reference; 8) academic transcripts showing two full years of work; 9) a statement of U.S. citizenship; 10) and an indication of where you learned of this opportunity.

Compensation and Benefits

Students will receive a stipend of $1,440 ($12 per hour) and will be reimbursed for domestic transportation to and from Greenbelt, Maryland. Students will be housed within commuting distance of the GSFC, and transportation to and from Goddard each day will be provided.

Applications Deadline

Application materials received before February 24, 2003 will receive fullest consideration. There is no formal application form. Selection announcements are planned by March 21, 2003.

Applications Contact

All application materials should be directed to:

Frances Lilly
Mail Code 933
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